

Inventions & Innovation Emerging Technology

Inner Roof Solar System

This new solar PVT (photovoltaic – thermal) hybrid CHP (combined heat and power) roofing technology incorporates a finished roofing surface that consists of an aesthetically appealing innovative solar tile and roof component that simultaneously provides solar water heating and solar electricity for businesses and homes. This new PVT concept has been designed to incorporate both a pre-manufactured solar PVT panel and a solar hot water absorber into a single rigid panel system that is the roofing surface. This system includes quick water and electrical connections. Panel to panel connections occur in this quick connect system above the roofing surface. This integrated solar roof - CHP concept is undergoing materials and systems engineering for the pre-production prototype.

Residential and commercial markets for an insulated solar roof product for heating and electricity could be a large source of energy saving and generation to the nation. This concept will help to remove one of the greatest barriers to commercialization of solar power in the residential and in some commercial properties – poor esthetics of most solar products. This product system will be commercialized and brought to the solar energy and roofing markets through the efforts of various existing tile roof manufacturers/distributors and various existing solar system manufacturers and solar system integrators.



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